



TITLE:

# Correction to "Derivational complexity of string-rewriting systems" (Algebraic Systems and Theoretical Computer Science)

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## Correction to "Derivational complexity of string-rewriting systems"

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I would like to correct Theorem 5.6 in [1] as follows (see [2]).

**Theorem 1.** *Let  $\alpha > 1$  be a real number. If there is a finite rewriting system with derivational complexity equivalent to  $n^\alpha$  or  $\alpha^n$ , then  $\alpha$  is computeable in time  $C^{C^{2^n}}$  for some constant  $C > 1$ .*

### References

- [1] Y. Kobayashi, The derivational complexity of string-rewriting systems, RIMS Kokyuroku 1712 (2010), 140–147.
- [2] Y. Kobayashi, The derivational complexity of string rewriting systems, Theoret. Comp. Sci. **438** (2012), 1–12.